

Possible Lines of Development for Automatically
Regulated Turbo-Generator Excitation Systems, by
Ya. N. Shtrafun.

RUSSIAN, per, Elektrichestvo, No 12, 1959, pp 10-13.

NLL M. 2660

Sci - Engr

Nov 61

174,426

Krochakevich, V. D.
DURATION OF TRANSIENTS IN THREE-PHASE
BRIDGE RECTIFIER CIRCUITS (Dlitel'nost'
Perekhodnykh Protseessov v Tseyakh s Trekhfaznymi
Mostovymi Vypryamitel'nyami). Mar 61 [7]p. 3 refs.
RTS 1771.

Order from LC or SLA mi\$1.80, ph\$1.80 61-19136

Trans. of "Elektrichestvo (USSR) 1959, no. 12,
p. 61-63.

61-19136

1. Rectifiers--Circuits
2. Wiring diagrams--Transients
3. Transients--Life expectancy
1. Krochakevich, V. D.
- II. RTS-1771
- III. Department of Scientific and
Industrial Research
(Gt. Brit.)

160980

Office of Technical Services

(Engineering--Electrical, TT, v. 5, no. 10)

Reactions on Surge Diverters With Reduced
Breakdown Voltage During Internal Over Voltages,
by D. V. Shisman.

RUSSIAN, per, Elektrichestvo, No 12, 1959,
pp 64-69.

NLL M. 2662

61-23265

Sci - Electron

173,973

Nov 61

61-12908

ELECTRIC TECHNOLOGY U.S.S.R., 1960, VOL. 5,
Dec 60, 169p.
Order from PP \$14.00, \$56.00/year

Trans. of Elektrichestvo (USSR) 1960, no. 1, p. 1-5,
27-37, 43-47; no. 2, p. 9-24, 53-57; no. 3, p. 20-24,
30-33, 48-55, 73-74. Abstracts are included of the
papers which are not translated in full.

Contents:

The tasks of the electrical engineering industry, by
N. I. Borisenko

Optimum control systems for the flying shears drive
in a rolling mill, by S. M. Domanitskiy

Transient processes in automatic step chronometric
control of electric rolling stock, by B. P. Petrov

A new method of testing the rupturing capacity of high
voltage circuit breakers, by A. I. Balakin

A digital programme control system for a large lathe,
by I. L. Shapiro and others

Self-aligning system for automatic control of welding
(Engineering--Electrical, TT, v. 5, no. 9) (over)

1. Electrical engineering--
USSR
2. Electrical engineering--
Periodicals
1. Pergamon Press, Inc.,
New York

Office of Technical Services

(NY-2900/9)

The Tasks of the Electrical Engineering Industry,
by N. I. Borisenko, 11 pp.

RUSSIAN, per, Elektrichestvo, No 1, 1960, pp 1-5.

JPRS 2969

USSR

Econ - Technological

Jul 60

121,485

61-23250

Sysoev, M. I.
IMPULSE STRENGTH OF AIRFILLED SWITCHGEAR.
[1961] [11]p. 5 refs. C. E. Trans. 1701; [DSIR LLU]
M. 2825.

Order from OTS or SLA \$1.60

61-23250

Trans. of *Elektrichestvo* (USSR) 1960, no. 1, p. 63-68.

DESCRIPTORS: *Electric switches, Compressed air,
Electric potential, Voltage.

See also 59-22496

- I. Sysoev, M. I.
- II. CE Trans-1701
- III. DSIR LLU M. 2825
- IV. Central Electricity
Generating Board
(Gt. Brit.)

155180

Office of Technical Services

(Engineering--Electrical, TT, v. 6, no. 8)

Re-Synchronization of Synchronous Generators, by
M. G. Portnoy.

RUSSIAN, per, Elektrichestvo, No 1, 1960, pp 73-78.

ALL M. 3332

Sci - Electron

191,926

Apr 62

06/43/77/2732

Modern Ideas on the Breakdown of Dielectrics,
by G. I. Shanavi.

RUSSIAN, per, Elektrichestvo, No 2, 1960,
pp 1-8.

NLL M. 2661

Sci Electron

Nov 61

173.974

(DC-6571)

A Self-Adjusting System of Automatic Control of
Electric Pipe-Welding Mills, by A. B. Chelyustkin,
V. A. Ivancov, 26 pp.

RUSSIAN, per, Elektrichestvo, No 2, 1960, pp 13-18.

JPRS 12929

Sci - Electricity
Mar 62

187,559

075 61-23125

A Physical Model of the Constant Current Electric Power Transmission System from Stalingrad GRES-Donbass, by V. V. Voskresenski and Kh. F. Barakoev.
RUSSIAN, par. Elektrichestvo, No 2, 1960, pp 28-35.
NLL RTS 2884

Sci-Engr
Nov 67

345,256

Synchronising Gear for a Synthetic Circuit
for Testing Circuit-Breakers for Breaking
Capacity, by N. M. Chernishov, V. D. Lyashenko.

RUSSIAN, per, Elektrichestvo, No 2,
1960, pp 53-57.

CSIRO

Sci - Electricity
Jun 62

203,361

Equivalent Circuit and ~~VERY~~ Precise Circle Design
for a Synchronous Reactance Motor, by O. B.
Pevzner.

RUSSIAN, per, Elektrichestvo, No 2, 1960,
pp 64-68.

MLL M. 3548

Sol - Engr
Jun 62

201,028

Statistical Method of Selecting the Voltage
in Tests for Breaking Capacity of Circuit
Breakers, by V. V. Kaplan, et al.

RUSSIAN, per, Elektrichestvo, No 2,
1960, pp 69-73.

CSIRO

Eci - Electricity
Jun 62

203,362

Zaleskii, A. M., Moiseev, M. B., and Popova, E. G.
TEMPERATURE RISE ON CURRENT-CARRYING PARTS OF ELECTRICAL EQUIPMENT. [1961] [9]p.
2 refs. C. E. Trans. 1935; [DSIR LLU] M. 4018.
Order from OTS or SLA \$1.10 61-28190

Trans. of *Elektrichestvo* (USSR) 1960, no. 2, p. 73-77.

DESCRIPTORS: Generators, *Electrical equipment, *Junction boxes, Electric connectors, Electric currents, Design, Temperature, Voltage, Flanges, Conductors, Heat transfer

An investigation by the Leningrad Polytechnic Institute, named after Kalinin showed that with currents of 6 to 12 kamp and above, the box section with flanges turned inwards is the most efficient shape for current-carrying. (Engineering-Electrical, TT, v. 6, no. 12) (over)

61-28190

- I. Zaleskii, A. M.
- II. Moiseev, M. B.
- III. Popova, E. G.
- IV. CE Trans-1935
- V. DSIR LLU M. 4018
- VI. Central Electricity Generating Board (Gt. Brit.)

182143

Office of Technical Services

(NY-2900/11)

Conference on the Utilization of Power
Semiconductor Rectifiers in Industrial Enterprises
and in Transport, by V. A. Naylis, 5 pp.

RUSSIAN, per, Elektrichestro, No 2, 1960, pp 89, 90.

JPRS 5303

USSR

Econ

158, 245

Jul 61

The Use of Analogue Computers for Studying
Transients in Electrical Systems, by I. A. Gruzdev,
M. L. Levinshtein.

RUSSIAN, per, Elektrichestvo, No 3, 1960, pp 1-13.

NLL M. 3014

Sci

Feb 62

186, 905

3814/T/T 2.41

High-Speed Differential Relay Protection Using
Semiconductors, by G. T. Grek.

RUSSIAN, per, Elektrichestvo, No 3, 1960,
pp 14-20.

MLL M. 3474

Sci - Electron

194, 022

Apr 62

Vilesov, D. V. and Ryabinin, I. A.
CHOIX DES PRINCIPAUX PARAMÈTRES DES
CIRCUITS D'EXCITATION DES GÉNÉRATEURS
SYNCHRONES À AUTOEXCITATION (How to Select
the Basic Parameters of Excitation Systems for Self-
excited Synchronous Generators). 18p. 5refs.
CNRS-X 542

Order from OTS, ETC or CNRS \$0.80 TT-62-28111

Trans. in French of Elektrichestvo (USSR) 1960,
no. 3, p. 20-24.

Another trans. is available in French from PP \$14.00
in Electric Technology USSR, v. 5.

DESCRIPTORS: Generators, Circuits, Starting,
Automatic, Phase transformers, Theory.

(Engineering--Electrical, TT, v. 11, no. 7)

TT-62-28111

- I. Vilesov, D. V.
- II. Ryabinin, I. A.
- III. CNRS-X542
- IV. Centre National de la
Recherche Scientifique,
Paris.

Office of Technical Services

63-12217

Okhremenko, N. M.
ELECTROMAGNETIC PHENOMENA IN FLAT-TYPE
INDUCTION PUMPS FOR MOLTEN METAL. Sep 62
[7]p. 12 refs.
Order from ARS in Its Journal, v. 32, no. 9, \$3.00

Trans. of Elektrichestvo (USSR) 1960, no. 3, p. 48-54.

DESCRIPTORS: *Electromagnetic pumps, Inductance,
Pumps, Induction motors, Liquid metals, *Liquid metal
pumps, Design.

(Physics--Electricity, TT, v. 9, no. 1)

- I. Okhremenko, N. M.
- II. American Rocket Society,
New York
- III. Primary Sources, New York

Office of Technical Services

Free Vibrations of a Coil, by L. Genov.

RUSSIAN, per, Elektrichestvo, No 3, 1960,
pp 55-59.

NLL M. 3545

Sci - Engr
Jun 62

201,027

Biber, L. A.
ERRORS IN GALVANOMETERS APPLIED AS
INTEGRATORS. 19p 5refs
Order from OTS, SLA, or ETC \$1.60 TT-64-16567

Trans. of Elektrichestvo (USSR) 1960, no. 3, p. 77-81.

(Engineering--Electrical, TT, v. 12, no. 3)

TT-64-16567

I. Biber, L. A.

Office of Technical Services

Method of Conducting Transient Stability Studies on
Analogue Computers, by V. S. Tarnasov, et al.

RUSSIAN, per, Elektrichestvo, No 4, 1960, pp 7-12.

HLL M. 3013

SLA-61-27584

Sci

Feb 62

186, 906

63-27532

Pistrak, A. I. and Balabuev, L. M.
ELEKTRONISCHE ERREGUNG FÜR MASCHINEN IM
HAUPTANTRIEB VON UMKEHRWALZWERKEN (Elec-
tronic Energization for Machines in the Main Gear of
Reversing Mills). 19p.
Order from TIB \$2.95

Trans. in German of Elektrichestvo (USSR) 1960, no. 4,
p. 13-20.

DESCRIPTORS: *Electronics, Machines, *Gears,
Rolling mills.

(Engineering--Electrical, TT, v. 10, no. 8)

- I. Pistrak, A. I.
- II. Balabuev, L. M.
- III. Technische Informations-
bibliothek, Hannover
(West Germany)

Office of Technical Services

61-12909

ELECTRIC TECHNOLOGY U.S.S.R., 1960, VOL. 6,
P. [171]-332. Jan 61, 1v.
Order from PP \$14.00, \$56.00/year

Trans. of Elektrichestvo (USSR) 1960, no. 4, p. 21-26,
47-51, 57-63, 70-72; no. 5, p. 13-15, 31-36, 60-66,
73-76; and no. 6, p. 14-16, 21-25, 29-38, 69-70.
Abstracts are included of the papers which are not
translated in full and also abstracts from no. 7.

Contents:

A reversing scheme for automatic speed control using
electromagnetic powder clutches, by T. A. Glazenko
Automatic device for load distribution in power sys-
tems, by S. V. Usov and others
Investigation of the extinction processes in a free A. C.
arc, by I. S. Tayev
Calculating transient processes in linear circuits by
recurrence formulae, by N. S. Kochanov
An improved system of arc excitation in mercury arc
(Engineering--Electrical, TT, v. 5, no. 9) (over)

1. Electrical engineering--
USSR
2. Electrical engineering--
Periodicals
1. Pergamon Press, Inc.,
New York

Office of Technical Services

The Quenching of an Open Arc, by A. S. Maikopar,

RUSSIAN, per, Elektrichestvo, No 4, 1960,
pp 64-65.

CSIRO

Sci - Engr
Aug 62

207,359

61-27609

Aleksandrov, G. N.
THE INFLUENCE OF CORONA ON VOLTAGE
SURGES UNDER TRANSIENT OPERATING CON-
DITIONS ON TRANSMISSION LINES. [1961] [15]p.
9 refs. C. E. Trans. 1777; [DSIR LLU] M. 3296.
Order from OTS or SLA \$1.60 61-27609

I. Aleksandrov, G. N.
III. CE Trans-1777
III. DSIR LLU M. 3296
IV. Central Electricity
Generating Board

Trans. of #Elektrichestvo (USSR) 1960, no. 5,
p. 6-13.

DESCRIPTORS: *Electrical corona, Electrical
effect, *Voltage, *Transmission lines, Transients.

Equations are derived that provide an evaluation of the
drop in the surge on power lines due to the corona
effect at the first rise in the voltage on the basis of
data obtained by calculating transient processes without
taking the corona effect into consideration. The equa-
tion can also be used for introducing a correction for
(Engineering--Electrical, TT, v. 6, no. 9) (over)

185609

Office of Technical Services

Electromagnetic Pumps for Liquid Metals, by A. I.
Vol'dek.

RUSSIAN, per, Elektrichestvo, No 5, 1960,
pp 22-27.

WLL M. 6321

Sci - Electron

Nov 62

CEGB 2462

Electromagnetic Pumps for Liquid Metals, by A. I.
Vol'dek.

RUSSIAN, per, Elektrichestvo, No 5, 1960,
pp 22-27.

WLL M. 6321

CRS-B 2462

Sci - Electron

Nov 62

217,529

CEA-tr-R-1389 Uncl.

POMPES ELECTROMAGNETIQUES POUR LES METAUX
LIQUIDES. (Electromagnetic Pumps for Liquid
Metals). A. I. Vold'ek. Translated into
French from Elektrichestvo, No. 5, 22-7(1960).
22p.

Engineering MC-38

C-38 NP NSA Dep.(mc); \$2.60(fs), \$0.86(mf)
JCL or OTS

N-3

Electromagnetic Calculations of Direct
Current Machines Taking Into Account
the Cooling of the Windings, by N.
A. Panfilov.

RUSSIAN, per, Elektrichestvo, No 5,
1960, pp 50-53.

NLL M.3322

Sci - Electricity

Feb 62

186,590

The Influence of Power Factor Improvement on Load
Stability, by V. A. Venikov, 7 pp.

RUSSIAN, per: Elektrichestvo, No 6, 1960, pp 6-10.

AEC-TRG-Inf-Ser-18

Sci - Engr

Aug 63

341,314

61-27608

Kostenko, M. P., Kazovskii, E. Ya., and
Danilevich, Ya. B.
EXPERIMENTAL INVESTIGATION OF NEW METH-
ODS OF DETERMINING THE PARAMETERS OF
A.C. MACHINES. [1961] [7] p. 3 refs. C.E.
Trans. 1874; [DSIR LLU] M. 3297.
Order from OTS or SLA \$1.10

61-27608

Trans. of *Elektrichestvo (USSR) 1960, no. 6,
p. 14-16.
Also included in trans. available from PP \$14.00.

DESCRIPTORS: *Electric machinery, Frequency,
Test methods, Transients, Alternating current.

The new methods for the experimental investigation of
machine parameters were quite simple and gave satis-
factory results, especially in the calculation of tran-
sient processes of machines with massive elements, in
which an essential factor is the current displacement.
(Author)

- I. Kostenko, M. P.
- II. Kazovskii, E. Ya.
- III. Danilevich, Ya. B.
- IV. CE Trans. 1874
- V. DSIR LLU M. 3297
- VI. Central Electricity
Generating Board
(Gt. Brit.)

185608

(Engineering--Electrical,
TT, v. 6, no. 9)
Office of Technical Services

INVESTIGATION OF THE IGNITION OF A SECTIONALISED
HIGH-VOLTAGE VALVE, BY N. M. MASLENNIKOV. *Opp.*

RUSSIAN, PER, ELEKTRICHESTVO, NO 6, 1960,
PP 25-29.

SCI - ELECTRICITY

OCT 62

NLL M. 6013
OTS 62-25924
*Reverse Trans to German
by TIB*

214,718

On the Operational Reliability of Tele-
mechanics Devices, by N. S. Shabalin, 6 pp.

RUSSIAN, per, Elektrichestvo, No 6, 1960,
pp 91-93. 9672013

FTD-TT-61-142

Sci - Eng

176, 145

18 Dec 61

(NY-7030)

Tasks in Improving the Quality of
Electrical Steels and Alloys, by
A. M. Samarin, 8 pp.

RUSSIAN, per, Elektrichestvo, No 7,
1960, pp 1-4.

JPRS 13429

Sci - Electricity

191,369

Apr 62

ELECTRIC TECHNOLOGY U.S.S.R., 1960, VOL. 7,
P. 333-484. Feb 61, IV.
Order from PP \$14.00, \$56.00/year

Trans. of *Elektrichestvo* (USSR) 1960, no. 7, p. 11-25,
61-65; no. 8, p. 36-39, 51-67; no. 9, p. 23-29, 38-45,
49-52. Abstracts are included of those papers which
are not translated in full.

DESCRIPTORS: *Electrical engineering, *Electrical
equipment, Electromagnetic drives, Rolling mills,
Grinders, Computers, Current regulators, Capacitors,
Nonlinear systems, Power transformers, Turbines,
Electric motors.

Contents:
New electrical drives for continuous cold rolling mills,
by F. F. Olefir
(Engineering--Electrical, TT, v. 10, no. 5) (over)

61-22441

I. Pergamon Press, Inc.,
New York

Office of Technical Services

S-82/61

(NY-5914)

Use of an Electronic Computer in the Study of a
Gyropilot, by I. R. Freydzon,

RUSSIAN, per, Elektrichestvo, No 7, 1960, pp 20-25.

*JPRS

Sci - Eng

27 Feb 61

On the Theory of Electric Power Control of
Ore-Treating Electric Furnaces, by V. S.
Lerner.

RUSSIAN, per, Elektrichestvo, No 7, 1960,
pp 25-30.

NIL M 8900

Sci - Engr
Feb 63

223,570

A Combined Method of Disconnecting
Power Electric Circuits, by N. P. Shishkin,
P. Ya. Danilin.

RUSSIAN, per, Elektrichestvo, Vol VII,
No 7, 1960, pp 47-50.

ML M.3301

Sci - Electricity

186,592

Feb 62

Belyakov, N. N. and Sherentsis, A. N.
DER SCHUTZ VON 35 - 500 kV - VERTEILUNGSAN-
LAGEN GEGEN ATMOSPHERISCHE UEBERSpanNUNGEN
UNTER MODERNEN GESICHTSPUNKTEN (The Pro-
tection of 35 - 500 kV Distribution Gears against
Atmospheric Overtension under Modern Considerations).
15p.

Order from TIB \$2.45

Trans. in German of Elektrichestvo (USSR) 1960, no. 7,
p. 51-56.

DESCRIPTORS: Distributors, *Atmospheric electricity,
Voltage, *Transmission gears.

(Engineering--Electrical, TT, v. 9, no. 11)

62-27253

- I. Belyakov, N. N.
- II. Sherentsis, A. N.
- III. Technische Informations-
bibliothek, Hannover
(West Germany)

Office of Technical Services

Flashover Characteristics of Long Insulator
Strings for Lines Operating at 500 KV and Above,
by N. N. Tikhodeyev, A. N. Tushnov, 12 pp.

RUSSIAN, per, Elektrichestvo, No 7, 1960,
pp 56-61.

SLA 60-18764

Review Trans to
German by TIB

Sci

Apr 61

146, 210

(SF-1038)

Sverdlovsk, USSR 500 KV Electric-Power
Substation, by L. D. Gustov, M. I. Levin,
A. M. Marinov, L. M. Myzin, A. P. Petrokov,
12 pp.

RUSSIAN, per, Elektrichestvo, No 7, 1960,
pp 61-65.

JPRS 4060

USSR
Econ - Electric Power
Sep 60

127,080

Mechanism of Flashover Along Layers of Oil-Paper
Insulation in a d-c System, by M. A. Greisukh, 20pp

RUSSIAN, per, Elektrichestvo, No 7, 1960,
pp 77-82.

JPRS 13099
*AEC AWRE Tr 39
(Notified)

Sci - Electron
Oct 62

JPRS 13099 notified 10/29

Reverse Trans to
German by TIB

OTS 63-24064

(SF-1038)

Prospects of Utilizing Direct-Current Transmission
in the USSR, by Ye. S. Groys, 10 pp.

RUSSIAN, per, Elektrichestvo, No 7, 1960, pp 86-89.

JPRS 4041

USSR

Econ - Electric power

Sep 60

125,705

(NY-2900/24)

Conference Concerning Transformer Manufacture, by
A. G. Krays, 14 pp.

RUSSIAN, per, Elektrichestvo, No 7, 1960,
pp 89-93.

JPRS 7856

USSR

Econ

Mar 61

142,695

(DC-4600/1)

Accounting for the Inter-System Effect in
Designing Large Power Transmission Lines, by
V. V. Bolotov, G. Ye. Burtseva, Ye. P. Sakharova,
15 pp.

RUSSIAN, per, Elektrichestvo, No 8, 1960, pp 16-22.

JPRS 6387

USSR
Econ
Jan 61

135,974

R-167-60

(DC-4401).

Principles of Development of the United Siberian
Power System, by V. I. Weits, 14 pp.

RUSSIAN, per, Elektrichestvo. No 8, 1960,
pp 22-28.

AS 36 U54 6054
JPRS 6054

USBR

Econ - Electric Power

Oct 60

128,175

Induction Meters and Wattmeters by
Thermistors, by A. M. Ilyukovich. 10 pp.

RUSSIAN, per, Elektrichestvo, No 8,
1960, pp 76-78.

Sci - Electricity

Feb 62

MLL M. 3326
Review Trans to
Herman by TIB
186,587

A METHOD FOR TAKING ACCOUNT OF POWER
SYSTEM OPERATING CONDITIONS AT THE
DESIGN STAGE, BY V. M. GORNSHTEIN.

RUSSIAN, PER, ELEKTRICHESTVO, NO 9, 1960,
PP 4-11.

NLL M.4664

OTS 62-1111

SCI -- ENGR

JUN 62

199,113

62-32771

Kazachkov, A. I., Klimov, V. A., and Polyak, G. I.
USE OF A CALCULATING BOARD IN COMPUTING
AN ELECTRIC SYSTEM WITH DIRECT CURRENT
TRANSMISSION, tr. by A. A. Osipovich. 15 Sep 61
[7]p. 4 refs.
Order from OTS or SLA \$1.10 62-32771

Trans. of Elektrichestvo (USSR) 1960, no. 9,
p. 11-14.

DESCRIPTORS: *Power, *Transmission lines, Direct
current, Synthesis, Electrical engineering.

(Engineering--Electrical, TT, v. 10, no. 3)

- I. Kazachkov, A. I.
- II. Klimov, V. A.
- III. Polyak, G. I.
- IV. Bonneville Power Administra-
tion, Portland, Ore.

Office of Technical Services

A Powerful AC-DC Converter, by N. S. Klinov,
14 pp.

RUSSIAN, per, Elektrichestvo, No 9, 1960,
pp 29-34. 9671161

Sci - Electricity

20 Oct 61

FTD MCI-1224/1

Reverse Trans to German

191,555

Ipatenko, N. R.
DIE DYNAMISCHE STABILITÄT VON SYNCHRONMO-
TOREN UND SYNCHRONISIERTEN ASYNCHRONMO-
TOREN MIT VERBUNDERREGUNG BEI STOSSWEISER
BELASTUNG (The Dynamic Stability of Synchronous
Motors and Synchronized Asynchronous Motors with
Compound Excitation during Pulsating Load). 6p.
Order from TIB \$1.30

Trans. in German Elektrichestvo (USSR) 1960, no. 9,
p. 59-62.

DESCRIPTORS: Dynamics, Stability, *Synchros, In-
duction motors, Excitation.

(Engineering--Electrical, TT, v. 10, no. 8)

63-27543

I. Ipatenko, N. R.
II. Technische Informations-
bibliothek, Hannover
(West Germany)

Office of Technical Services

The Nature of the Electrical Strength of 'Samica'
Insulation, by K. A. Andryanov, et al.

RUSSIAN, per, Elektrichestvo, No 9, 1960, pp 73-80.

NLL M. 3338

Sci - Engr

Apr 62

191,914

ELECTRIC TECHNOLOGY U.S.S.R., 1960, VOL. 8,
P. 485-642. Mar 61, 1v.
Order from PP \$14.00, \$56.00/year

Trans. of Elektrichestvo (USSR) 1960, no. 10, p. 1-7,
35-41, 56-62; no. 11, p. 20-28, 76-86; no. 12, p. 9-15,
28-34, 58-69. Abstracts are included of the papers
which are not translated in full.

DESCRIPTORS: *Electrical engineering, *Electrical
equipment, *USSR

Contents:

Self-adjusting decentralized system automatically con-
trolling power system frequency and real power flow,
by A. G. Moskalev

Transients in magnetic amplifiers with an RL (active
inductive) load in the rectified current circuit, by
Khu-Tszia-lao and V. A. Shubenko

A new instrument for investigating surge phenomena in
(Engineering--Electrical, TT, v. 6, no. 1) (over)

61-22442 ,

I. Pergamon Press, Inc.,
New York

Office of Technical Services

Transient Responses in Magnetic Amplifiers With an
RL Load Supplied Through a Rectifier Circuit, by
Hu Tsia-Yao, V. A. Shubenko, 6 pp.

RUSSIAN, per, Elektrichestvo, No 10, 1960, pp 35-41.

Internatl Phys Index
Automation Express
Vol III, No 6

Sci - Electron

May 61

150,457

The Correction of Thermister Temperature
Characteristics, by G. K. I. Nuchayev.

RUSSIAN, per, ~~Elektricheskoye~~, No 10,
1960, pp 63-64.

NLL M.3464

Sci - Electricity
Apr 62

193,801

61-22442

ELECTRIC TECHNOLOGY U.S.S.R., 1960, VOL. 8, I. Pergamon Press, Inc.,
P. 485-642. Mar 61, 1v. New York
Order from PP \$14.00, \$56.00/year

Trans. of Elektrichestvo (USSR) 1960, no. 10, p. 1-7,
35-41, 56-62; ~~no. 11, p. 20-28~~; 76-86; no. 12, p. 9-15,
28-34, 58-69. Abstracts are included of the papers
which are not translated in full.

DESCRIPTORS: *Electrical engineering, *Electrical
equipment, *USSR

Contents:

Self-adjusting decentralized system automatically con-
trolling power system frequency and real power flow,
by A. G. Moskalev

Transients in magnetic amplifiers with an RL (active
inductive) load in the rectified current circuit, by
Khu-Tszia-lao and V. A. Shubenko

A new instrument for investigating surge phenomena in
(Engineering--Electrical, TT, v. 6, no. 1) (over)

Office of Technical Services

(DC-6779)

Problems of Electric Power Regionalization on the
Example of the Chinese People's Republic, by
Hsu Shou-po, 27 pp.

RUSSIAN, per, Elektrichestvo, No 12, 1960, pp 15-20.

JPRS 13804

Asia - China
Econ
May 62

196, 140

ON THE PROBLEM OF PROVIDING DISTANCE PROTECTION
AGAINST ALL TYPES OF MULTIPHASE LINE FAULTS, BY
S. B. LOSEV.

RUSSIAN, PER, ELEKTRICHESTVO, NO 12, 1960,
PP 47-58.

NLL M. 3726

SCI - ENGR

OCT 62

CC/122/641

214,717

Spark Prevention in Electrical Equipment
Operating in Explosive Atmospheres,
by V. S. Kravchenko, P. A. Fetisov.

RUSSIAN, per, Elektrichestvo, No 12,
1960, pp 48-52.

NLL M.3440

Sci --Electricity

Apr 62

193, 798

Design Tensions of Steel-Aluminium Conductors, by
O.G.Vekselman.

RUSSIAN, per, Elektrichestvo, 1961, pp 9-15
NZDSIR/Ref No 764

Sci -
Aug 67

335,107

CURRENT TRANSFORMERS WITH AN AIR GAP, BY I. M.
SIROTA.

RUSSIAN, PER, ELEKTRICHESTVO, NO 1, 1961, PP 56-61.

NLL M. 3796

SCI - ELECTRICITY

OCT 62

214,722

Transients in Current Transformers, by
E. M. Pevzner.

RUSSIAN, per, Elektrichestvo, No 1, 1961,
pp 61-66.

NLL Ref: 9022.03 1964 (3365)
(loan copy)

Sci
Sep 64

The Intrinsic Safety of High-Frequency
AC Circuits, by V. S. Kravchenko,
Sun Yui-chi.

RUSSIAN, per, Elektrichestvo, No 1,
1961, pp 77-88.

MLL M.345155

Sci - Electricity
Apr 62

193,799

(DC-4600/8)

Unification of the USSR Electric Power Systems
in Europe and Siberia, by V. I. Vcyts, et al,
20 pp.

RUSSIAN, per, Elektrichestvo, No 2, 1961,
pp 1-9.

JPRS 8650

USSR
Econ
Aug 61

163,335

Electric Breakdown of Microgaps in a Gas, by
U. Frolov. *12 pp.*

RUSSIAN, per, Elektrichestvo, No 2, 1961, pp 73-76.

NASA TT F-8361

OTS 63-16639

Sci

Apr 63

US GOV'T ONLY

229,232

NLL Ref: 5828.4 1962 (2351)
(*Sci. 1*)

A Graphical and Analytical Method of Calculating
the Permeance of Electrical Apparatus, by
B. K. Bul'.

RUSSIAN, per, Elektrichestvo, No 3, 1961,
pp 28-35.

NEL M 5148

Sci - Electron
May 63

229,808

Palastin, L. M.

BRUSHLESS SYNCHRONOUS GENERATORS (Sinkhronnyye Generatory Bez Shchetchnogo Kontakta) tr. by G. Kinner. Oct 61 [11p] 7 refs RAE Library Trans. no. 974; AD-267 698.
Order from OTS, SLA, or ETC \$1.60 TT-63-24340

Trans. of Elektrichestvo (USSR) 1961, no. 3, p. 51-56. (Abstract available)

DESCRIPTORS: *Generators, *Permanent magnet generators, Rectifiers, Rotation, Electromagnetic properties, Magnets, Electric discharges, *Aircraft equipment.

The paper reviews the development of brushless synchronous generators both in the U. S. S. R. and elsewhere. In rotating-rectifier generators, the use of compound exciters, with combined electromagnetic (Engineering--Electrical, TT, v. 11, no. 2) (over)

TT-63-24340

- I. Palastin, L. M.
- II. RAE Trans-974
- III. AD-267 698
- IV. Royal Aircraft Establishment (Gt. Brit.)

Office of Technical Services

The Dielectric Properties and Stability
of Transformer Oils, by Ch. M. Dzhubarly.

RUSSIAN, per, Elektrichestvo, No 3, 1961,
pp 83-86.

NLL M.3469

Sci - Electronics

193, 915

Apr 62

Calculation on Digital Computers of Transistor
Processes on Synchronous Machines by Differential
Equations With Recurring Coefficients, by
E. B. M. Kagan.

RUSSIAN, per, Elektrichestvo, No 4, 1961, pp 43-48.

NIL RTS 2205
(loan)

238, 114

Sof -
Jul 63

AN ELECTROSTATIC GENERATOR, BY N. G. DROZDOV,
A. I. KUKARIN, B. S. SAVASHKEVICH, 3 PP.

RUSSIAN, PER, ELEKTRICHESTVO, NO 4, 1961,
PP 48-50. 9677447

FTD-TT-62-35

SCI-ENGR
10 JUL 62

202,282

Prizeventsev, V. A.
ALUMINUM WINDING CONDUCTORS WITH ENAMEL
AND FIBER INSULATION. Feb 62.
Order from MT £2 15s MT Trans-195

Trans. of Elektrichestvo (USSR) 1961, no. 4, p. 68-73.

DESCRIPTORS: *Conductors, *Wiring diagrams,
*Aluminum, *Enamel coatings, Fibers, *Electric
insulation.

(Engineering--Electrical, TT, v. 8, no. 2)

62-17035

I. Prizeventsev, V. A.
II. MT Trans-195
III. Tollemache, M. de O.
(Gr. Brit.)

Office of Technical Services

Choice of Safety Factor and Computation in
Designing Electromagnetic Mechanisms of a
Required Dependability, by Ya. A. Rips, 14 pp.

RUSSIAN, per, Elektrichestvo, No 4, 1961,
pp 76-81. 9668564

FTD-TT-63-37

Sci-Electronics
May 63

230,887

Simulating a System With Many Generators on an Analog
Computer, by N. I. Sokolov, Yu. E. Gurevich, 5 pp.

RUSSIAN, per, Elektrichestvo, No 5, 1961, pp 1-3.

Interntl Physical Index
Power Express
Vol I, No 3

Sci - Electron

Jun 62

200,987

63-14929

Kuchinskii, G. S. and Kaplan, D. A.
PERMISSIBLE FIELD POTENTIALS FOR PAPER-OIL
INSULATION OF APPARATUS OPERATING IN D. C.
TRANSMISSION LINES (Dopuskaemye Napryazhenosti
dlya Bumazhino-Maalyanoi Izolyatsii Apparatov,
Rabotayushchikh v Zlektroperedachakh Postoyannogo
Toka). [1963] [19]p. (foreign text included) 3 refs.
Order from OTS or SLA \$1.60 63-14929

I. Kuchinskii, G. S.
II. Kaplan, D. A.

Trans. of Elektrichestvo (USSR) 1961, no. 5, p. 64-68.

DESCRIPTORS: *Electric insulation, Direct current,
*Transmission lines, *Electric potential, Ionization,
Electric equipment, *Paper, *Oils, Transformers,

The permissible operating voltage in the case of d. c.
can be selected on the basis of the ionization charac-
teristics. Thereby, the intensity of the ionization
processes should not exceed the intensity of the initial
(Engineering--Electrical, TT, v. 10, no. 7) (over)

Office of Technical Services

POWER RELAY USING SEMICONDUCTORS, BY V. A.
GRINSHTEIN.

RUSSIAN, PER, ELEKTRICHESTVO, NO 5, 1961, P 70.

NLL M. 6015

SCI - ELECTRICITY, ELECTRON

OCT 62

214,715

Wave Deformation Due to Earth and Conductor
Resistance in a Multi-Conductor Line,
by M. V. Kostenko.

RUSSIAN, per, Elektrichestvo, No 6, 1961, pp 5-10.

NLL Ref. 9022.09 1963 (2,578)
(Loan)

Sci - Electron
Nov 63

OTS 63-23956 (91.60)

242,305
CE Trans 2578

Raising the Static Stability of a System by Regu-
lating the DC Transmission Line, by
V. G. Nocitskiy.
RUSSIAN, per, Elektrichestvo, No 6, 1961, pp 58-61.
CIA X-6754

Oct 68

368,271

Increasing the Steady State Stability of a System
by Regulating the Flow of Direct Current, by
V. G. Novitskiy.

RUSSIAN, per, Elektrichestvo, No 6, 1961,
pp 58-60.

NIL HTS 1995
(loan)

Sci -
Jul. 63

238,115

The Effect of Excitation Systems on the Stability of
Parallel Operation of Large Turbo-Generators, by
V. M. Borzov, I. A. Glebov.

RUSSIAN, per, Elektrichestvo, No 7, 1961,
pp 7-13.

NLL M 5035

Sci - Electron
Mar 63

826,534

LONG-DISTANCE POWER TRANSMISSION WITH SATURABLE
REACTOR-TRANSFORMERS AND FORCED CAPACITOR BANKS,
BY D. I. AZAREV.

RUSSIAN, PER, ELEKTRICHESTVO, NO 7, 1961, PP 24-30.

NLL M. 6327

SCI - ELECTRON

OCT 62

214,791

CALCULATION OF TRANSIENT STABILITY TAKING
GOVERNORS AND EXCITATION REGULATORS, BY K. I.
BOGATEV. 11 pp.

RUSSIAN, PER, ELEKTRICHESTVO, NO 7, 1961, PP 31-34.

NLL M. 6288

SCI - ENGR

OCT 62

*Review Translated
Herman by TTB*

214,712

Application of the Phase Plane Method to the Study
of the Mechanical Transient Processes of an
Electric Drive, by L. I. Gandzha.

RUSSIAN, per, Elektrichestvo, No 7, 1961,
pp 68-72.

NLL M. 3859

Sci - Phys

Nov 62

217,554

Turbo Generators With a Large Unit Power Capacity, by
V. V. Titov, 4 pp.

RUSSIAN, per, Elektrichestvo, No 3, 1961, pp 1-4.

Interntl Physical Index
Power Express
Vol I, No 3

Sci - Engr.

Jun 62

SPRS 11194

200,984

Tuned Power Transmission Lines, by
V. K. Shcherbakov, 16 pp.
RUSSIAN, per, Elektrichestvo, No 8, 1961,
pp 25-30.
CIA/FDD XX-1747
NO FOREIGN DISSEM

Sci
Aug 65
USIB Internal Use Only

287,614

Optimum Geometrical Ratios in Induction Pumps for
Liquid Metals, by N. M. Okhremenko, 19 pp.

RUSSIAN, per, Elektrichestvo, No 9, 1961,
pp 10-16. 9681602

FTD-TT-62-1724

Sci-Engr
May 63

229,490